

## ORDINANCE NUMBER 10-10555

### AN ORDINANCE AMENDING CHAPTER 8, ARTICLE I, DIVISION 4 OF THE SALINA CODE ADOPTING THE 2006 UNIFORM MECHANICAL CODE AND LOCAL AMENDMENTS.

**BE IT ORDAINED** by the Governing Body of the City of Salina, Kansas:

**Section 1.** That Division 4 of Chapter 8, Article I of the Salina Code is hereby amended and reads as follows:

#### **“DIVISION 4. ADOPTION OF MECHANICAL CODE WITH AMENDMENTS**

##### **Sec. 8-121. Uniform Mechanical Code adopted.**

There is hereby adopted, by reference, by the city for the purpose of providing minimum standards to safeguard life or limb, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, location, operation, alteration repair and maintenance of heating, ventilating, cooling, refrigeration systems, incinerators and other miscellaneous heat-producing appliances, that certain building code known as the Uniform Mechanical Code, recommended and published by the International Association of Plumbing and Mechanical Officials, being particularly the 2006 edition not including appendices thereto, except as amended in this article of the Salina Code, of which not fewer than three (3) copies have been, and are now filed in the office of the city clerk and the same are hereby incorporated as fully as if set out at length herein and the provisions thereof shall be controlling in the construction and maintenance of all buildings and structures therein contained within the corporate limits of the city.

##### **Sec. 8-122. Amendment to Section 108.1 of the Uniform Mechanical Code.**

*[Section 108. is hereby amended to read as follows:]*

**108.1 General.** The Administrative Authority as used in this code shall mean the City of Salina and the building official. The Administrative Authority is hereby authorized and directed to enforce all the provisions of this code. For such purposes the Administrative Authority shall have the powers of a law enforcement officer.

The Administrative Authority shall have the power to render interpretations of this code and to adopt and enforce rules and regulations supplemental to this code as may be deemed necessary in order to clarify the application of the provisions of this code. Such interpretations, rules and regulations shall be in conformity with the intent and purpose of this code.

##### **Sec. 8-123. Amendment to Section 110.0 of the Uniform Mechanical Code.**

*[Section 110.0 and all of its subsections is hereby amended to read as follows:]*

**110.0 Board of Appeals.** Appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code shall be heard and decided by the Building Advisory Board. See Article II, Chapter 8 of Salina Municipal Code

**110.1 General.** Deleted

**110.2 Limitations of Authority.** Deleted

##### **Sec. 8-124. Amendment to Section 115.1 of the Uniform Mechanical Code.**

*[Section 115.1 is hereby amended to read as follows:]*

**115.1 General.** Fees shall be assessed in accordance with the provisions of this section and as set forth in the fee schedule Table 1-1. The fees are to be determined and adopted by this jurisdiction.

**Sec. 8-125. Amendment to Section 115.2 of the Uniform Mechanical Code.**

*[Section 115.2 is hereby amended to read as follows:]*

**115.2 Permit Fees.** The fee for each permit shall be as set forth in the fee schedule adopted pursuant to section 2-2 of the Salina Code of Ordinances.

**Sec. 8-126. Amendment to Section 115.3 of the Uniform Mechanical Code.**

Section 115.3 is hereby deleted.

**Sec. 8-127. Amendment to Section 303.1 of the Uniform Mechanical Code.**

*[Section 303.1 is hereby amended to read as follows:]*

**303.1 General.** Each appliance shall be designed for use with the type of fuel to which it will be connected. Appliances shall not be converted from the fuel specified on the rating plate for use with a different fuel without securing re-approval from the Administrative Authority and as recommended by the manufacturer of either the original equipment or the conversion equipment. The serving gas supplier may convert appliances in accordance with procedures approved by the Administrative Authority without securing re-approval of the appliance if properly relabeled. An accessible approved shutoff valve shall be installed in the fuel gas piping outside of each appliance and ahead of the union connection thereto in addition to any valve provided on the appliance. Such valve shall be within six (6) feet (1.8 m) of the appliance it serves, and in the same room or space where the appliance is located.

**Exceptions:**

Shutoff valves may be accessibly located inside or under an appliance when such appliance can be removed without removal of the shutoff valve.

1. Shutoff valves may be accessibly located inside wall heaters and wall furnaces listed for recessed installation where necessary maintenance can be performed without removal of the shutoff valve.
2. Shutoff valves for decorative appliances for installation in vented fireplaces shall not be prohibited from being installed in an area remote from the appliance where such valves are provided with ready access. Such valves shall be permanently identified and shall serve no other equipment.

**Sec. 8-127. Amendment to Section 305.0 of the Uniform Mechanical Code.**

*[Section 305.0 is hereby amended to read as follows:]*

**305.0 Access**

Appliances shall be accessible for inspection, service, repair and replacement without removing permanent construction.

Unless otherwise specified, not less than thirty (30) inches (762 mm) in depth, width and height of working space and platform shall be provided to service the appliance.

**Exception:**

1. Unit heaters and room heaters may be installed with an eighteen (18) inch (457 mm) minimum depth working space. A platform shall not be required for unit heaters or room heaters. The operating instructions shall be attached to the appliance where they can be read easily.
2. For replacement central furnaces and boilers the unobstructed depth need only be 24".

**Sec. 8-128. Amendment to Section 309.0 of the Uniform Mechanical Code.**

*[Section 309.0 is hereby amended to read as follows:]*

**309.0 Electrical Connections.** Equipment regulated by this code requiring electrical connections of more than 50 Volts shall have a positive means of disconnect adjacent to and in sight from the equipment served. A 120 volt receptacle shall be located within 25 feet (7620 mm) of the equipment for service and maintenance purposes. The receptacle is not required for replacement of existing equipment in the same location. The receptacle must be located on the same level as the equipment and be accessible. Low voltage wiring of 50 Volts or less within a structure shall be installed in a manner to prevent physical damage.

**Sec. 8-129. Amendment to Section 504.3.2.2 of the Uniform Mechanical Code.**

*[Section 504.3.2.2 is hereby amended to read as follows:]*

**504.3.2.2 Length Limitation.** Unless otherwise permitted or required by the dryer manufacturer's installation instructions and approved by the Administrative Authority, domestic dryer moisture exhaust ducts shall not exceed to total combined horizontal and vertical length 30 feet (9150 mm) of 4 inch vent or 37 feet (11285 mm), of 5 inch vent, including two 90 degree (1.57 rad) elbows. Two feet (610 mm) shall be deducted for each 90 degree (1.57 rad) for each additional elbow. If the vent passes through space that is unheated it shall be insulated to prevent condensation.

**Sec. 8-130. Amendment to Section 510.7.1 of the Uniform Mechanical Code.**

*[Section 510.7.1 is hereby amended to read as follows:]*

**510.7.1** The ducts shall be enclosed in a continuous enclosure extending from the lowest ceiling or floor above the hood, through any concealed spaces, to or through the roof so as to maintain the integrity of the fire separations required by the applicable Building Code provisions. The enclosure shall be sealed around the duct at the point of penetration of the lowest fire-rated ceiling or floor above the hood in order to maintain the fire resistance rating of the enclosure and shall be vented to the exterior of the building through weather-protected openings.

**Exception:** The continuous enclosure provisions shall not be required where a field-applied grease duct enclosure or a factory-built grease duct enclosure (see Section 507.2.3) is protected with a listed duct-through-penetration protection system equivalent to the fire resistance rating of the assembly being penetrated, and the materials are installed in accordance with the conditions of their listings and the manufacturers' instructions and are acceptable to the Authority Having Jurisdiction.

**Sec. 8-131. Reserved.****Sec. 8-132. Amendment to Section 802.6.3.1 of the Uniform Mechanical Code.**

*[Section 802.6.3.1 is hereby amended to read as follows:]*

**802.6.3.1 Category I Appliances.** The sizing of natural draft venting systems serving one or more listed appliances equipped with a draft hood or appliances listed for use with Type B gas vent, installed in a single story of a building, shall be in accordance with one of the following methods.

- (1) The provisions of Section 803.0.
- (2) Vents serving a single, draft-hood equipped new-location appliance, fan-assisted combustion system appliances, or combinations of fan-assisted combustion system and draft-hood-equipped appliances shall be sized in accordance with section 803.0 of this chapter or other approved engineering methods.
- (3) For sizing an individual gas vent for a single, draft-hood equipped replacement appliance, the effective area of the vent connector and the gas vent shall be not less than the area of the appliance draft hood outlet or greater than seven times the draft hood outlet area. Such vents and their connectors shall be limited to a combined maximum change in direction of 180 degrees. Vents requiring greater change in direction shall be sized in accordance with section 803.0 of this chapter.
- (4) For sizing an existing gas vent connected to two appliances with draft hoods, the effective area of the vent shall be not less than the area of the larger draft hood outlet plus 50% of the area of the smaller draft hood outlet or greater than seven times the smaller draft hood outlet area. Vents connectors for such systems shall be sized in accordance with sections 802.10.3.3 and 802.10.9.2 of this chapter. Each vent connector shall be limited to a combined maximum change in direction of 180 degrees. Vents connectors requiring greater change in direction shall be sized in accordance with section 803.0 of this chapter.
- (5) Approved engineering practices.

**Sec. 8-133 – 8-134. Reserved.****8-135. Amendment to Section 904.1 of the Uniform Mechanical Code.**

*[Section 904. is hereby amended to read as follows:]*

**904.1 Location.** Central heating furnace and low-pressure boiler installations in bedrooms or bathrooms shall comply with one of the following:

- (1) Central heating furnaces and low-pressure boilers may be installed in a closet located in the bedroom or bathroom provided the closet is equipped with a listed, gasketed door assembly and a listed self-closing device. The self-closing door assembly shall meet the requirements of Section 904.1.1. The door assembly shall be installed with a threshold and bottom door seal and shall meet the requirements of Section 904.1.2. All combustion air for such installations shall be obtained from the outdoors in accordance with Section 507.4. The closet shall be for the exclusive use of the central heating furnace and low-pressure boiler.

**Exception:** Existing central heating furnaces and low-pressure boilers that are located in bathrooms or closets accessible from a bathroom need not be enclosed nor provided with a gasketed door when they are replaced unless the only access to such spaces is through a bedroom.

- (2) Central heating furnaces and low-pressure boilers shall be of the direct-vent type or shall be electric.

**Sec. 8-135.1. Reserved.****Sec. 8-136. Amendment to Section 904.11 of the Uniform Mechanical Code.**

*[Section 904.11 is hereby amended to read as follows:]*

**904.11 Appliances in Attics.**

**904.11.1 Attic Access.** An attic in which an appliance is installed shall be accessible through an opening and passageway as large as the largest component of the appliance and not less than twenty-two (22) inches by thirty (30) inches (560 mm x 760 mm).

**904.11.2** Where the height of the passageway is less than six (6) feet (1.8m), the distance from the passageway access to furnace shall not exceed 20 feet (6.1m) measured along the center-line of the passageway.

**904.11.3** The passageway shall be unobstructed and shall have continuous solid flooring not less than twenty-four (24) inches (610 mm) wide from the entrance opening to the appliance.

**904.11.4 Work Platform.** A level working platform not less than thirty (30) inches (760 mm) by thirty (30) inches shall be provided in front of the service side of the appliance.

Exception: A working platform need not be provided when the furnace can be serviced from the required access opening.

**904.11.5 Lighting and Convenience Outlet.** A permanent 120-volt receptacle outlet and a lighting fixture shall be installed near the furnace. The switch controlling the lighting fixture shall be located at the entrance to the passageway.

Exception: Neither an outlet nor a light shall be required for furnaces installed above a lay-in ceiling when tiles immediately adjacent to the furnace can be removed.

**Sec. 8-137. Amendment to Section 904.10.3 of the Uniform Mechanical Code.**

*[Section 904.10. is hereby amended to read as follows:]*

**904.10.3 Access to Equipment on Roofs.**

**904.10.3.1** Gas utilization equipment located on roofs or other elevated locations shall be accessible.

**904.10.3.2** Buildings of more than fifteen (15) feet (4.6m) in height shall have a permanent means of access to the roof. Permanent exterior ladders providing roof access need not extend closer than 15 feet to the finish grade.

**904.10.3.3** An inside means of access shall be a permanent or foldaway inside stairway or ladder, terminating in an enclosure, scuttle, or trapdoor. Such scuttles or trapdoors shall be at least twenty-two (22) inches by twenty-four (24) inches (560 mm x 610 mm) in size, shall open easily and safely

under all conditions, especially snow, and shall be constructed so as to permit access from the roof side unless deliberately locked on the inside. At least six (6) feet (1.8m) of clearance shall be available between the access opening and the edge of the roof or similar hazard, or rigidly fixed rails or guards a minimum of forty-two (42) inches (1.1m) in height shall be provided on the exposed side. Where parapets or other building structures are utilized in lieu of guards or rails, they shall be a minimum of forty-two (42) inches (1.1m) in height.

**904.10.3.4** Permanent lighting shall be provided at the roof access. The switch for such lighting shall be located inside the building near the access means leading to the roof.

**Sec. 8-138. Amendment to Section 924.0 of the Uniform Mechanical Code.**

*[Section 924.0 is hereby amended to read as follows:]*

**924.0 Room Heaters**

**924.1 Prohibited Installations.** Unless specifically permitted by the Authority Having Jurisdiction, unvented room heaters shall not be installed as primary heat sources. Unvented room heaters and gas log fireplaces must be permanently installed, and must be provided with an approved oxygen depletion safety shutoff system and shall not be permitted in spaces that do not have the required volume of indoor air as defined in section 701.2

**924.1.1** Unvented room heaters shall not be installed in bathrooms or bedrooms. This subsection shall not apply to portable oil fired unvented heating appliances used as supplemental heating in Group S, Divisions 3, 4, and 5, and Group U Occupancies, and regulated by the Fire Code.

**Exceptions:**

- (1) Where approved by the Authority Having Jurisdiction, one listed wall-mounted unvented room heater, unvented decorative gas log or unvented gas fireplace shall be permitted to be installed in a bathroom provided that the input rating shall not exceed 6,000/ BTU/hr. (1760 W/hr) and combustion and ventilation air is provided as specified in Section 701.2. Any such appliance shall be equipped with an approved oxygen depletion safety shutoff system.
- (2) Where approved by the Authority Having Jurisdiction, one listed wall-mounted unvented room heater, unvented decorative gas log or unvented gas fireplace shall be permitted to be installed in a bedroom provided that the input rating shall not exceed 10,000/ BTU/hr. (2930 W/hr) and combustion and ventilation air is provided as specified in Section 701.2. Any such appliance shall be equipped with an approved oxygen depletion safety shutoff system.

**Sec. 8-139. Amendment to Section 1311.2.5 of the Uniform Mechanical Code.**

*[Section 1311.2.5 is hereby amended to read as follows:]*

**1311.2.5 Prohibited Locations.** Gas piping inside any building shall not be installed in or through a circulating air duct, clothes chute, chimney or gas vent, ventilating duct, dumbwaiter, or elevator shaft. This provision shall not apply to ducts used to provide combustion and ventilation air in accordance with Section 507.0 or to above-ceiling spaces as covered in 1311.2.4.1. Gas pipe with inlet pressures less than 2 pounds located in air moving plenums must be tested at 60 PSI for 30 minutes. Gas pipe with inlet pressures of 2 pounds or more located in air moving plenums must be welded.

**Sec. 8-140. Amendment to Section 1312.1 of the Uniform Mechanical Code.**

*[Section 1312.1 is hereby amended to read as follows:]*

**1312.1 Connecting Gas Equipment.** Gas utilization equipment shall be connected to the building piping in compliance with 1312.4 and 1312.5 by one of the following:

- (1) Rigid metallic pipe and fittings.
- (2) Semirigid metallic tubing and metallic fittings. Aluminum alloy tubing shall not be used in exterior locations.
- (3) Listed flexible gas connectors in compliance with ANSI Z21.24, *Standard for Connectors for Gas Appliances*. The connectors shall be used in accordance with the terms of their listing, shall be completely in the same room as the equipment and except for wall furnaces and gas fireplace, no part of the connector shall be permitted in the equipment housing.

**Exception:** Existing approved flexible gas connectors listed to earlier standards may be reused subject to the following conditions;

- a. The connector shall be in a serviceable working condition with no cracks
  - b. Connectors shall have an overall length of not to exceed three (3) feet (914 mm) except a listed range or dryer connector, which may not exceed six (6) feet (1829 mm).
  - c. All connectors shall be of such size as to provide the total demand of the connected appliance based on the applicable Tables 12-42 or 12-43.
- (4) CSST where installed in accordance with the manufacturer's instructions.
  - (5) Listed non-metallic gas hose connectors in accordance with 1312.2.
  - (6) Gas-fired food service (commercial cooking) equipment listed for use with casters or otherwise subject to movement for cleaning, and other large and heavy gas utilization equipment that can be moved, shall be connected in accordance with the connector manufacturer's installation instructions using a listed appliance connector complying with ANSI Z21.69, *Standard for Connectors for Movable Gas Appliances*.
  - (7) In 1312.1(2), (3), and (5), the connector or tubing shall be installed so as to be protected against physical and thermal damage. Aluminum alloy tubing and connectors shall be coated to protect against external corrosion where they are in contact with masonry, plaster, or insulation or are subject to repeated wettings by such liquids as water (except rain water), detergents, or sewage.

**TABLE 12-42**

Capacities of Listed Metal Appliance Connectors for Use with Gas Pressures  
Less Than an 8 Inch Water Column

		Capacities for Various Lengths, in Thousands Btu/h (Based on Pressure Drop of 0.2 in. Water Column Natural Gas of 1100 Btu/cu. ft.)							
Semi-rigid Connector O.D. Inches	Flexible Connector Nominal I.D., Inches	1 foot	1 ½ feet	2 feet	2 ½ feet	3 feet	4 feet	5 feet	6 feet
All Gas Appliances					Ranges and Dryers Only				
3/8	¼	28	23	20	19	17			
½	3/8	66	54	47	44	41			
5/8	½	134	110	95	88	82	72	63	57
-	¾	285	233	202	188	174			
-	1	567	467	405	378	353			

Notes:

1. Flexible connector listings are based on the nominal internal diameter.
2. Semi-rigid connector listings are based on the outside diameter.
3. Gas connectors are certified by the testing agency as complete assemblies, including the fittings and vales. Capacities shown are based on the use of fittings and valves supplied with the connector.
4. Capacities for LPG are 1.6 times the natural gas capacities shown.

**TABLE 12-43**

Capacities of Listed Metal Appliance Connectors for Use with Gas Pressures  
Not Less Than an 8 Inch Water Column

		Capacities for Various Lengths, in Thousands Btu/h (Based on Pressure Drop of 0.2 in. Water Column Natural Gas of 1100 Btu/cu. ft.)							
Semi-rigid Connector O.D. Inches	Flexible Connector Nominal I.D., Inches	1 foot	1 ½ feet	2 feet	2 ½ feet	3 feet	4 feet	5 feet	6 feet
All Gas Appliances						Ranges and Dryers Only			
3/8	¼	40	33	29	27	25			
½	3/8	93	76	66	62	58			
5/8	½	189	155	134	125	116	101	90	80
-	¾	404	330	287	266	244			
-	1	803	661	573	534	500			

Notes:

1. Flexible connector listings are based on the nominal internal diameter.
2. Semi-rigid connector listings are based on the outside diameter.
3. Gas connectors are certified by the testing agency as complete assemblies, including the fittings and valves. Capacities shown are based on the use of fittings and valves supplied with the connector.
4. Capacities for LPG are 1.6 times the natural gas capacities shown.

**Sec. 8-141. Amendment to Section 1312.4 of the Uniform Mechanical Code.**

*[Section 1312.4 is hereby amended to read as follows:]*

**1312.4 Equipment Shutoff Valves and Connections.** Gas utilization equipment connected to a piping system shall have an accessible, approved manual shutoff valve with a non-displaceable valve member, or a listed gas convenience outlet, installed in the same room as the appliance, within 6 ft (1.8 m) of the equipment it serves. Where a connector is used, the valve shall be installed upstream of the connector. A union or flanged connection shall be provided downstream from this valve to permit removal of controls. Shutoff valves serving decorative gas appliances shall be permitted to be installed in fireplaces if listed for such use.

**Exceptions:**

1. Shutoff valves may be accessibly located inside or under an appliance when such appliance can be removed without removal of the shutoff valve.
2. Shutoff valves may be accessibly located inside wall heaters and wall furnaces listed for recessed installation where necessary maintenance can be performed without removal of the shutoff valve.
3. Shutoff valves for vented decorative appliances and decorative appliances for installation in vented fireplaces shall not be prohibited from being installed in an area remote from the appliance where such valves are provided with ready access. Such valves shall be permanently identified and shall serve no other equipment.

**Sec. 8-142. Amendment to Section 1314.4 of the Uniform Mechanical Code.**

*[Section 1314.4 is hereby amended to read as follows:]*

**1314.4 Test Pressure.**

**1314.4.1** Test pressure shall be measured with a manometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss due to leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. Mechanical

gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than two times the test pressure.

**1314.4.2** The test pressure to be used shall be no less than 10 psi (68.9kPa) for systems designed for less than 2 pounds inlet pressure, nor less than 60 pounds (413kPa) for welded pipe or systems designed for 2 or more pounds of inlet pressure.

**1314.4.3** Test duration shall be not less than 30 minutes for welded pipe or systems designed for 2 or more pounds of inlet pressure or for a system designed for less than 2 pounds of inlet pressure, the test duration shall be a minimum of 15 minutes. The duration of the test shall not be required to exceed 24 hours.

**Sec. 8-143. Amendment to Chapter 14 of the Uniform Mechanical Code.**

Chapter 14 is hereby deleted.

**Secs. 8-144 - 8-145. Reserved.”**

**Section 2.** That the existing Division 4 of Chapter 8, Article I of the Salina Code is hereby repealed.

**Section 3.** That this ordinance shall be in full force and effect from and after its adoption and 90 days after publication once in the official city newspaper.

Introduced: July 12, 2010

Passed: July 19, 2010

Aaron G. Peck, Mayor

[SEAL]

ATTEST:

Lieu Ann Elsey, CMC, City Clerk